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(54) MAGNETIC DISK DEVICE

(57)Abstract:

PURPOSE: To improve the head positioning accuracy by detecting an ambient temperature, an internal temperature, and information related to a position error of a track and a head and converting them to a digital signal, calculating the position error, and changing a driving state of a head positioning actuator.

CONSTITUTION: When a disk device 1 receives a seek instruction from a disk controller 3, a processor 14 commands a movement of a head to a driving circuit 16 based on a command from a track position register 11. At the same time, by a digital output from a memory 15 and a timer/counter 13, and a multiplexer 12 having an A/D converting function, an output from temperature sensors 18, 19, which has been converted to a digital value is inputted, and a head position error is calculated from each value of an elapsed time of after a power source has been turned on, an ambient temperature, an internal temperature, etc., and a correcting command is sent to windings A, B through a driving circuit 16. In this way, read/write operations are executed by correcting the head position error caused by a temperature change and the elapsed time of after the power source has been turned on, at every seek instruction.